



Dart Aerospace Ltd.
1270 Aberdeen St
Hawkesbury, ON
K6A 1K7
Canada

Tel (613) 632-5200
Fax 613 632-5246

647.4110

Job Sheet 187695



Part No: 647.4110

Job Qty: 5 ea

Part Name: Doubler



Part Weight: 0 lbs

Status: New

Priority: Medium

Job Created: 12/11/18

Job Tracking No:

Due Date: 2/1/19

Created By: Jesse White

Type: Stock

Description:

Note: DWG REV N/C3 SHEET 1 IPP REV:A 12.10.26 NEW ISSUE DD VERF:JLM

Ship Via:

Bill of Materials

Job Routing

Op No	Operation	Qty	Start Date	Due Date	Standard		Workcenter/Supplier		Sign-off
					Setup Hrs	Run Hrs	Workcenter / Supplier	Lead Time	
110	Waterjet - Flow - 1	5 pcs	2/1/19	2/1/19	0.02	0.31	Waterjet - Flow		SC 19/01/09
120	QC	5 pcs	2/1/19	2/1/19	0.00	0.00	QC2 Waterjet-1		SC 19/01/09
130	QC	5 pcs	2/1/19	2/1/19	0.00	0.00	QC8-1		38
140	Small Fab	5 pcs	2/1/19	2/1/19	0.00	0.33	Small Fab-1		38
150	QC	5 pcs	2/1/19	2/1/19	0.00	0.00	QC5		MAR 12 2019 68
160	Outsource	5 pcs	2/1/19	2/1/19			ATG001-VC		03/12/2019 89
170	Packaging	5 pcs	2/1/19	2/1/19	0.00	0.00	Packaging2		MAR 20 2019 68
180	QC	5 pcs	2/1/19	2/1/19	0.00	0.00	QC5		MAR 20 2019 68
210	Packaging	5 pcs	2/1/19	2/1/19	0.00	0.00	Packaging3-1		MAR 19 2019 68
220	QC21-SA	5 Ea	2/1/19	2/1/19	0.00	0.00	QC21		21

Part Op 110 - 1-Cut as per Dwg

Descriptions: 140 - FORM AS PER DWG

160 - Issue P/O to ATG : 1- Black Anodize as per Dwg 647.4100

210 - ***IDENTIFY AS PER APICAL MPP-120 BY STAMPING P# AND REV***

Job BOM

Part / Item	Component Name	Quantity	Operation	Container
M2024T3S.063	2024-T3 .063 Sheet	6.1350 sf (1.227 ea)	110-Waterjet - Flow - 1	516/278

Job Allocations

Operation	Component Part	Required	Inventory	Allocated
110-Waterjet - Flow - 1	M2024T3S.063	6	68	0



Container No: S144813



Part: 647.4110

Job No: 187695

Serial No/Batch: S144813

Revision:

Inspector:

Exp Date:

Instructions:

Dart Aerospace Ltd.
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CANADA
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Email: sales@dartaero.com
www.dartaerospace.com

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Entered: _____ Date: _____



WORK ORDER NON-CONFORMANCE / ROUTE UPDATE

NCR No. _____

Route update only ☐

Job: _____ Part No. _____	DISPOSITION Rework ☐ Scrap ☐ Use-as-is ☐	DEPARTMENT/PROCESS Skid-tube ☐ Machining ☐ Large Fab ☐ Cross tube ☐ Small Fab ☐ Finishing ☐ Eng. (Non-AW) ☐ Prod. Eng. Coord. ☐ Rec/Store/Packaging ☐ Engineering ☐ Water Jet ☐ Supplier ☐ Quality ☐			
Date :	Sequence #:	QTY Affected :		MRB (QSI042)	
Description Work Order Deviation		Disposition		Completed By	
				Lead hand / Supervisor	
				QC / QA Coordinator	
Root Cause Operator ☐ Manufacturing Process ☐ Equip/Tooling ☐ Handling/Preservation ☐ Material ☐ Product Improvement ☐ Process Improvement ☐ Human Factors ☐		FAULT CATEGORY ☐ Pressure/Forced ☐ Bending ☐ Crushing ☐ Cracks ☐ Crimp/Kink/Ripple/Wave/Twist ☐ Marks/Chatter ☐ Mislabeled ☐ Contamination ☐ Misaligned/off center ☐ BOM/Route ☐ Broken/Damage/Defect ☐ Incomplete/Unclear Instructions ☐ Drill Holes ☐ Fit/Function ☐ Power Loss/Surge ☐ Folio/Program ☐ Grain Direction ☐ Weld ☐ Wrong Stock Pulled ☐ Out of Sequence ☐ Off-set/Set-up ☐ Positioned Wrong ☐ Outside Tolerance ☐ Drawing ☐ Finish ☐ Part Lost/Missing ☐ Misread			
Other/Details:					

Part Specifications					
Spec No	Description	Target/Tolerance	Limits	Type	Special Comments
1	Doubler	0.625inches $\pm$ 0.010	0.635 0.615	0,623	
2	Doubler	5.841inches $\pm$ 0.010	5.851 5.831	5,840	
3	Doubler	4.080inches $\pm$ 0.010	4.090 4.070	4,084	
4	Doubler	0.738inches $\pm$ 0.010	0.748 0.728	0,740	
5	Doubler	1.625inches $\pm$ 0.010	1.635 1.615	1,628	
6	Doubler	12.625inches $\pm$ 0.010	12.635 12.615	12,625	
7	Doubler	12.125inches $\pm$ 0.010	12.135 12.115	12,125	
8	Doubler	3.772inches $\pm$ 0.010	3.782 3.762	3,775	
9	Doubler	1.125inches $\pm$ 0.010	1.135 1.115	1,125	
10	Doubler	0.500inches $\pm$ 0.010	0.510 0.490	0,504	
11	Doubler	1.000inches $\pm$ 0.010	1.010 0.990	1,001	
12	Doubler	2.551inches $\pm$ 0.010	2.561 2.541	2,550	
13	Doubler	7.000inches $\pm$ 0.010	7.010 6.990	7,000	
14	Doubler	11.449inches $\pm$ 0.010	11.459 11.439	11,450	
15	Doubler	13.000inches $\pm$ 0.010	13.010 12.990	13,000	
16	Doubler	13.500inches $\pm$ 0.010	13.510 13.490	13,500	
17	Doubler	14.000inches $\pm$ 0.010	14.010 13.990	14,000	

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Entered: _____ Date: _____

WORK ORDER NON-CONFORMANCE / ROUTE UPDATE



NCR No. _____

Route update only ☐

Job: _____ Part No. _____		DISPOSITION Rework ☐ Scrap ☐ Use-as-is ☐		DEPARTMENT/PROCESS Skid-tube ☐ Machining ☐ Cross tube ☐ Small Part ☐		Eng. (Non-Avail) ☐ Engineering ☐ Later Jet ☐ Supplier ☐ Quality ☐ (QSI042) Container No: S144813 Part: 647,4110 Job No: 187695 Serial No/Batch: S144813 Exp Date: _____ Inspector: _____ Revision: _____ Instructions: _____ Date: 01/16/19 Supervisor _____ Director _____	
Date: _____ Sequence #: _____ Description Work Order Deviation							
Root Cause Operator ☐ Manufacturing Process ☐ Equip/Tooling ☐ Handling/Preservation ☐ Material ☐ Product Improvement ☐ Process Improvement ☐ Human Factors ☐		☐ Pressure/Forced ☐ Bending ☐ Crushing ☐ Cracks ☐ Crimp/Kink/Ripple/Wave/Twist ☐ Marks/Chatter ☐ Mislabeled ☐ BOM/Route ☐ Broken/Damage/Defect ☐ Incomplete/Unclear Instructions ☐ Drill Holes ☐ Fit/Function ☐ Folio/Program ☐ Grain Direction ☐ Weld ☐ Wrong Stock Pulled ☐ Out of Sequence ☐ Off-set/Set-up ☐ Positioned Wrong ☐ Outside Tolerance ☐ Drawing ☐ Finish ☐ Part Lost/Missing ☐ Misread Other/Details: _____					



Dart Aerospace Ltd.
1270 Aberdeen St
Hawkesbury, ON
K6A 1K7
Canada

Tel (613) 632-5200

PURCHASE ORDER

PO042861



Supplier: ATG001-VC
A.T.G. Industries Inc
760 INDUSTRIELLE ROAD
ROCKLAND
ON
K4K 1T2 Canada
Phone: 613-446-4544
Fax: 613-446-4556

Attention: Lalande, Marc-Andre

Ship To: 1270 Aberdeen Street
Hawkesbury
ON
K6A 1K7 Canada
Phone: 613-632-5200

PO No: PO042861

PO Date: 3/12/19

Due Date: 3/15/19

Purchase Order

Revision:

Revision Date:

Ship-To Contact: Phone:

Via: Ground

Pymt Terms: Net 30

Freight Terms:

Special Comments:

Items

Line Item	Job	Part	Description	Status	Account	Due Date	Order Quantity	Received Quantity	Balance	Unit Price (CAD)	Extended Price
1	191750	RBE350A94-3700-C-07	Top -Issue P/O: PO -ANODIZE COLOR RED, PER IAW MIL-A-8625 TYPE-2 CLASS-2, Water sealant As Per Dwg RBE350A94-3700-C-07 Rev 6 -Certificate of Conformity is required	Firmed	-	3/15/19	32 pcs	0 pcs	32 pcs	\$4.75/pcs	\$152.00
2	188120	RBEVR-L11-0010-003-B	Spacer -Issue P/O: -ANODIZE COLOR CLEAR, PER IAW MIL-A-8625F TYPE 2 CLASS 1, Water sealant -Material type; 6061T6 -Certificate of Conformity is required	Firmed	-	3/15/19	2 pcs	0 pcs	2 pcs	\$4.75/pcs	\$9.50
3	190357	647.4113	Clip (Outsource process-Anodize per QSI017 4.1.10.1) HARD ANODIZE, COLOR BLACK AS PER DWG.(SEE NOTE 2)	Firmed	-	3/15/19	10 pcs	0 pcs	10 pcs	\$8.08/pcs	\$80.80
4	190842	647.1711	Plate (Outsource process-Anodize per QSI017 4.1.10.1) Issue P/O to ATG :	Firmed	-	3/15/19	7 pcs	0 pcs	7 pcs	\$31.33/pcs	\$219.31
5	191106	647.3916	Deflector Issue P/O to ATG : Hard Anodize Color Black, Prime as per Dwg 647.3900 Rev. C	Firmed	-	3/15/19	9 pcs	0 pcs	9 pcs	\$19.18/pcs	\$172.62



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PURCHASE ORDER

PO042861



Items

Line Item	Job	Part	Description	Status	Account	Due Date	Order Quantity	Received Quantity	Balance	Unit Price (CAD)	Extended Price
6	190870	646.9910	Struts Issue P/O to ATG : _____ Hard Anodize, Color Black and Prime as per Dwg 646.9900 rev. N/C	Firmed	-	3/15/19	16 pcs	0 pcs	16 pcs	\$12.98/pcs	\$207.68
							16 X MAR 20 2019				
7	187695	647.4110	Doubler Issue P/O to ATG : _____ 1- Black Anodize as per Dwg 647.4100	Firmed	-	3/15/19	5 pcs	0 pcs	5 pcs	\$24.33/pcs	\$121.65
							5 X MAR 20 2019				
8	187911	649.5111	LH Wiper Deflector Outsource process-Anodize per QSI017 4.1.10.1 - Issue P/O to ATG : _____ AS PER DWG 649.5100 1- Black Anodize as per 2- PRIME AS PER DWG, SEE NOTE #2 Certification of Conformity is required	Firmed	-	3/15/19	4 pcs	0 pcs	4 pcs	\$17.38/pcs	\$69.52
9	190719	647.2011	Lower Strut Issue P/O: _____ ANODIZE AS PER DWG Finish: HARD ANODIZE IAW MIL- A-8625 TYPE III, CLASS 2, COLOUR BLACK PRIME IAW MIL- P-23377J TYPE I CLASS N	Firmed	-	3/15/19	6 pcs	0 pcs	6 pcs	\$14.48/pcs	\$86.88
							6 X MAR 20 2019				
10	190716	646.3814	Wiper Bracket Issue P/O to ATG: _____ AS PER MPP-172 SECTION 2.1, HARD ANODIZE COLOR BLACK, PER IAW MIL-A-8625 TYPE 3 CLASS 2 AS PER MPP-172 SECTION 4.3, PRIME CARDINAL 7760-4702 LOW VOC EPOXY PRIMER (LIGHT GRAY) Certification of Conformity is required	Firmed	-	3/15/19	12 pcs	0 pcs	12 pcs	\$7.18/pcs	\$86.16
11	191738	647.2010	Upper Strut Outsource process-Anodize per QSI017 4.1.10.1 Issue P/O: _____ ANODIZE AS PER DWG	Firmed	-	3/15/19	12 pcs	0 pcs	12 pcs	\$14.48/pcs	\$173.76
							12 X MAR 20 2019				

Grand Total: \$1,379.88



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PURCHASE ORDER

PO042861



Order Notes

Procurement Quality Clauses

A005 right of entry
A012 chemical and physical test report
A016 personnel qualification
A017 raw material identification (as applicable)

A022 Apical Processing
A024 process certifications
A026 certification of material conformance

A041 quality management system
A042 dart notification by supplier
A043 retention of quality documents

A048 counterfeit parts avoidance, detection, mitigation and disposition program

A049 supplier awareness

Terms & Condition of Purchasing(Suppliers) and Procurement Quality Clauses are an integral part of our AS9100 requirements. To learn in detail, please visit www.dartaerospace.com for further explanation.

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A.T.G. Industries Inc.
760 Industrielle Street
Rockland, ON K4K 1T2
Canada

Ph: (613) 446-4544

Fax: (613) 446-4556

Pack List

Number: 917497

Date: 19-Mar-19

To

Dart Aerospace Ltd
1270 Aberdeen St
Hawkesbury, ON K6A 1K7

Ship To

Patrick Lussier
Dart Aerospace Ltd
1270 Aberdeen St
Hawkesbury, ON K6A 1K7

Ph: 613 632-9577

Fax: 613 632-1053

Ph: 613 632-9577

Fax: 613 632-1053

Terms		Ship Via	
		ATG Delivery	
Quantity	Description		
	Please reference this document's Pack List number on all correspondences regarding this shipment. If you have any questions, please contact us.		
✓ 12 ea	Part: 647.2010 ✓ Upper Strut Hard Anodize per MIL-A-8625F, Type III, Class 2, Black, .0005-.0045" (.5 - 4.5mils) Prime per MIL-PRF-23377, Type I, Class N (Customer Supplied) .0006-.0009" (.6-.9 mils) per drawing Job: 24783	Rev: NC PO: PO042861 ✓	Line: 11
✓ 10 ea	Part: 647.4113 ✓ Clip Hard Black Anodize per MIL-A-8625F, Type III, Class 2, .0005-.0045" (.5 - 4.5mils) Prime per MIL-PRF-23377, Type I, Class N (Customer Supplied), .0001-.0002" (1 - 2 mils) per drawing. Job: 24775	Rev: N/C PO: PO042861 ✓	Line: 3
✓ 16 ea	Part: 646.9910 ✓ Struts Hard Black Anodize per MIL-A-8625F, Type III, Class 2, .0005-.0045" (.5 - 4.5mils) Prime per MIL-PRF-23377, Type I, Class N (Customer Supplied), .0006-.0009" (.6 - .9 mils) per drawing. Job: 24778	Rev: NC PO: PO042861 ✓	Line: 6
✓ 5 ea	Part: 647.4110 ✓ Doubler Hard Black Anodize per MIL-A-8625F, Type III, Class 2, .0005-.0045" (.5 - 4.5mils) Prime per MIL-PRF-23377, Type I, Class N (Customer Supplied), .0006-.0009" (.6 - .9 mils) per drawing. Job: 24779	Rev: N/C3 PO: PO042861 ✓	Line: 7
✓ 6 ea	Part: 647.2011 ✓ Lower Strut Hard Anodize per MIL-A-8625F, Type III, Class 2, Black, .0005-.0045" (.5 - 4.5mils) Prime per MIL-PRF-23377, Type I, Class N (Customer Supplied) .0006-.0009"	Rev: NC 	
Made in Canada.			



A.T.G. Industries Inc.
760 Industrielle Street
Rockland, ON K4K 1T2
Canada

Ph: (613) 446-4544

Fax: (613) 446-4556

Pack List

Number: 917497

Date: 19-Mar-19

To

Dart Aerospace Ltd
1270 Aberdeen St
Hawkesbury, ON K6A 1K7

Ship To

Patrick Lussier
Dart Aerospace Ltd
1270 Aberdeen St
Hawkesbury, ON K6A 1K7

Ph: 613 632-9577

Fax: 613 632-1053

Ph: 613 632-9577

Fax: 613 632-1053

Terms		Ship Via	
		ATG Delivery	
Quantity	Description		
	(.6-.9 mils) per drawing Job: 24781 PO: PO042861 Line: 9		
CERTIFICATE OF CONFORMANCE A.T.G Industries Inc. certifies that all items in this shipment conform to the requirements. Date: <u>19/3/19</u> Certified Signature: <u>[Signature]</u> Receiver Signature: _____ A.T.G Industries Inc. is AS9100 Registered and Nadcap Chemical Processing Accredited. Note: This Packing Slip may contain parts that have been PLATED. Items that are plated may be subject to natural tarnishing and it is suggested that they be inspected within 24 hours of receipt.			
Made in Canada.			